Crown Cleaners of Watertown, Inc. Superfund Site

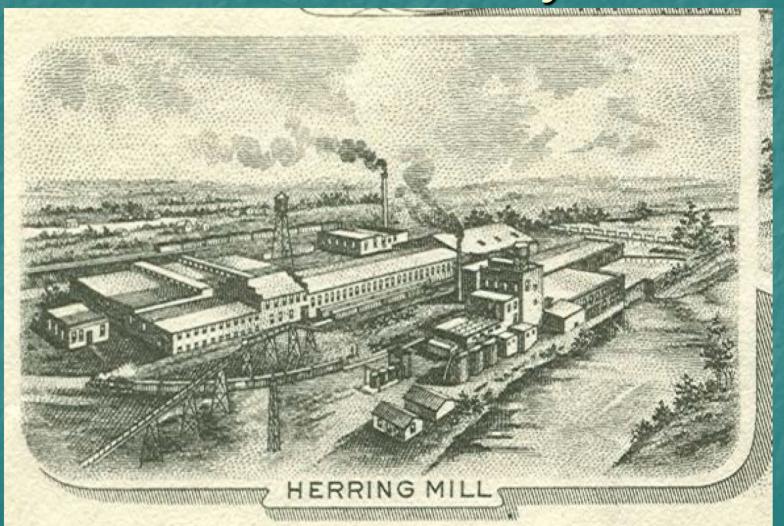


SUPERFUND RESPONSE ACTION PRIORITY PANEL REVIEW

2012



Site History

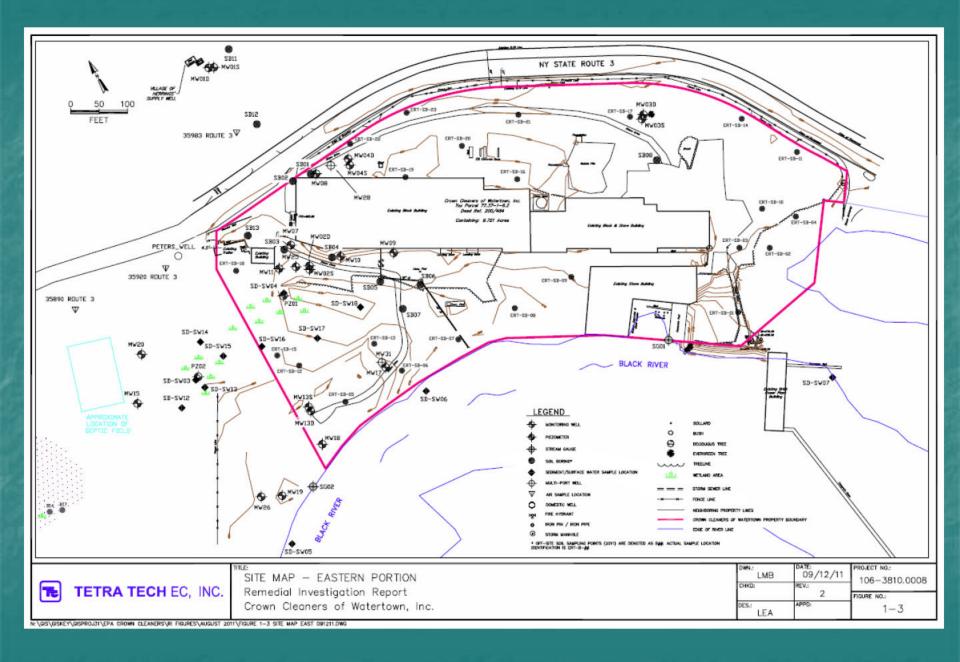




Site Background

- St. Regis Paper Company used the site to produce paper bags and related products from 1890 until the mid-1960's.
- Property purchased by Crown Cleaners of Watertown, Inc. in the late 1970s.
- Operated until 1991 as a dry cleaning and laundry facility.
- Primary contaminants of concern are PCE and TCE.
 - PAHs, metals, PCBs, and pesticides also detected in samples.











Crown Cleaners dilapidated building



Western Wetlands area





Nature and Extent - Soil

- PCE present in site soils at levels above criteria.
- Highest concentrations of PCE generally present near the western end of the main building.
 - Former filter storage area/rubble pile, solvent delivery/storage/usage area likely sources.
- Lead, pesticides, and PAHs also detected in soil on Crown Cleaners property.



Nature and Extent - Groundwater

- PCE contamination extends through the upper unit bedrock aquifer on-site to the west.
 - Highest concentrations of PCE generally present near western end of main building.
 - Additional area of PCE-impacted groundwater in western wetlands area.
 - Limited natural attenuation.
 - Some degradation and dispersion.



Nature and Extent – Surface water and Sediment

- No significant impacts to Black River.
- PCE present in surface water and sediment in wetlands areas.
- PAHs, pesticides and PCBs in sediment in western wetlands area.



Human Health Risk Assessment

- No significant vapor intrusion risks.
- Potential risk from PAHs in western wetlands area.
- Risk to potential future residents at Crown Cleaners property if site developed.
- Groundwater at the site poses risk for drinking.



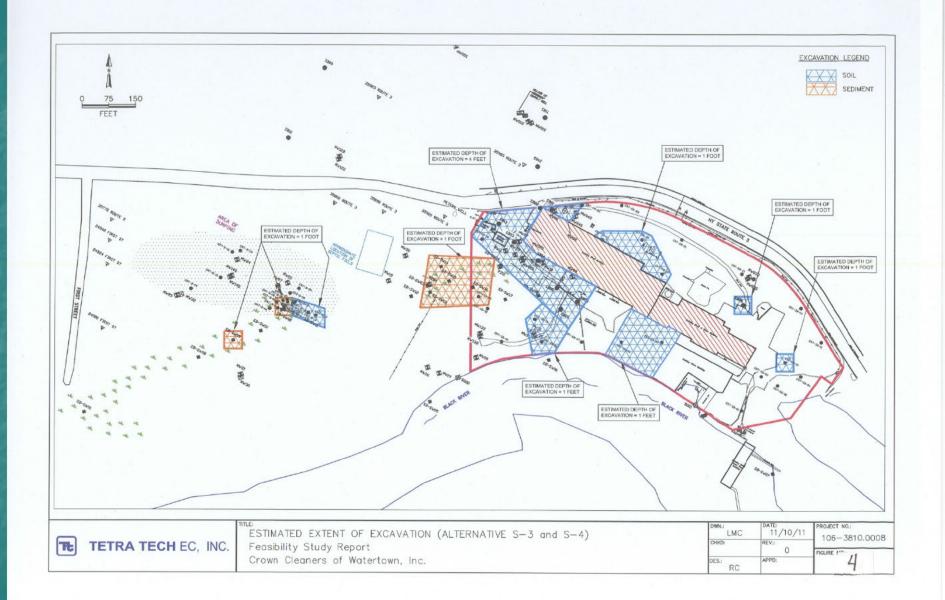
Ecological Risk Assessment

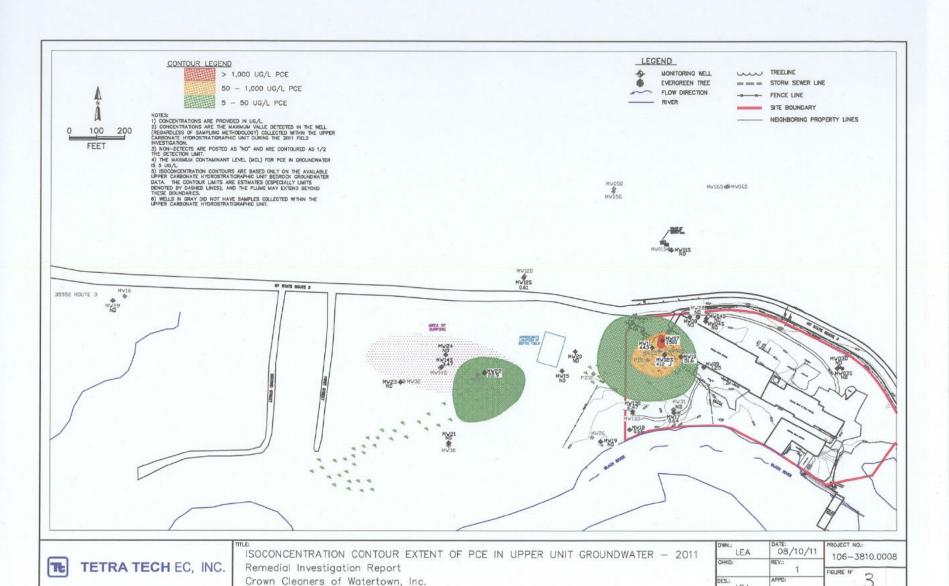
- Low potential risks to terrestrial mammals in upland and wetland habitats.
- Limited risks to terrestrial and wetland plants and invertebrates from metals and PAHs in wetland soils.
- A potential significant risk for avian receptors from lead in both upland soils and wetland soils/sediments.
- A potential risk to benthic community structure and function from PAHs, chlorodane and multiple metals in wetland sediments.



Site Remedy

- Alternatives S-3 and GW-3
 - Building Demolition, Excavation of PCEand PAH-contaminated soils and limited excavation of wetland sediments.
 - Source Area In-Situ Chemical Oxidation.
 - Monitored Natural Attenuation.
 - Long-Term Monitoring.





LEA



Cost

- Estimated Cost of Proposed Remedy:
 - Soil and Sediment Remediation \$4,253,000.
 - Groundwater Treatment: \$1,976,000.
 - OM&M (1st year): \$505,000 (includes injections).
 - Annual OM&M: \$57,000.



Crown Cleaners of Watertown, Inc. Fencing looking south from Rte. 3

